FIG. 1

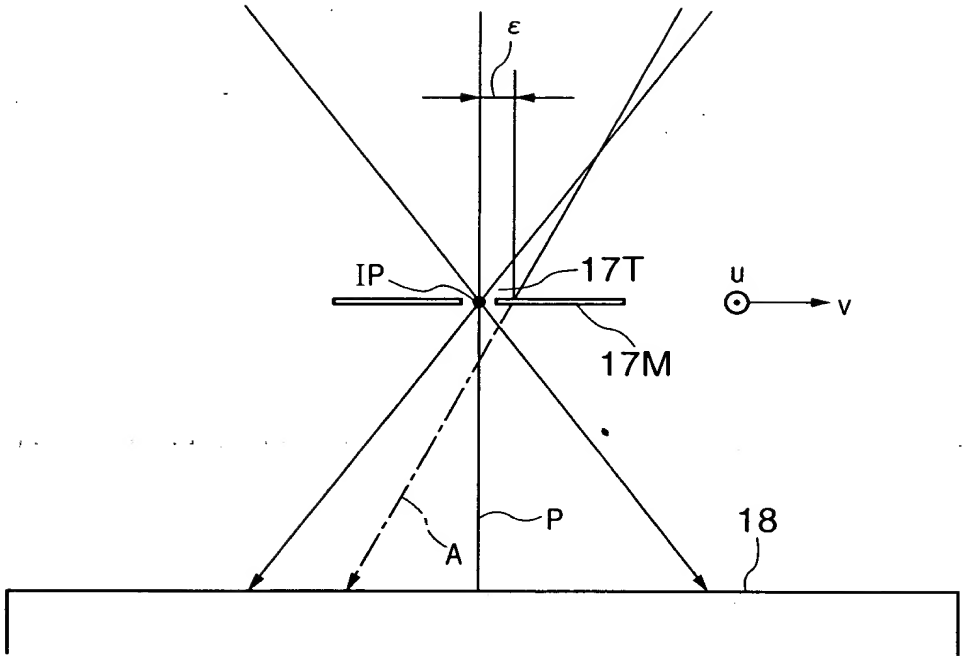


FIG. 2

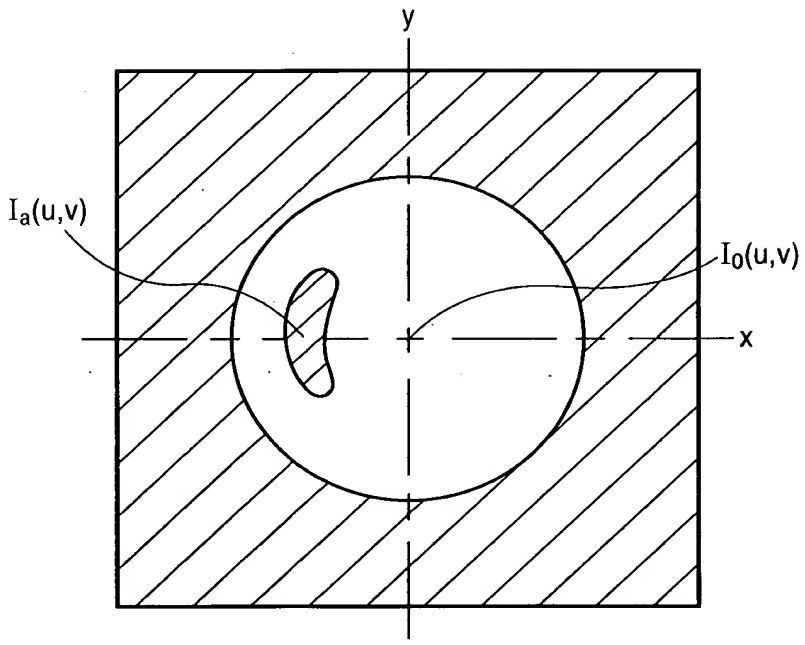


FIG. 3

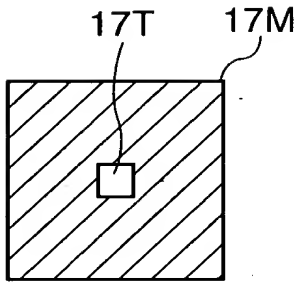


FIG. 4A

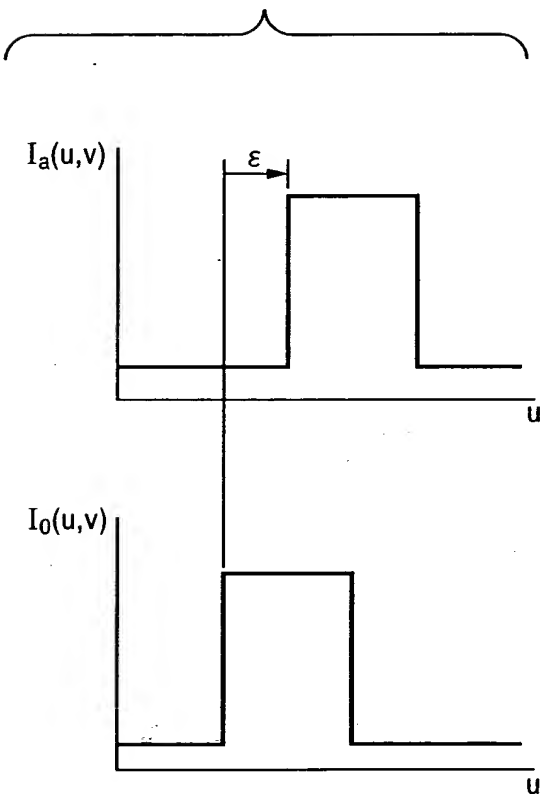


FIG. 4B

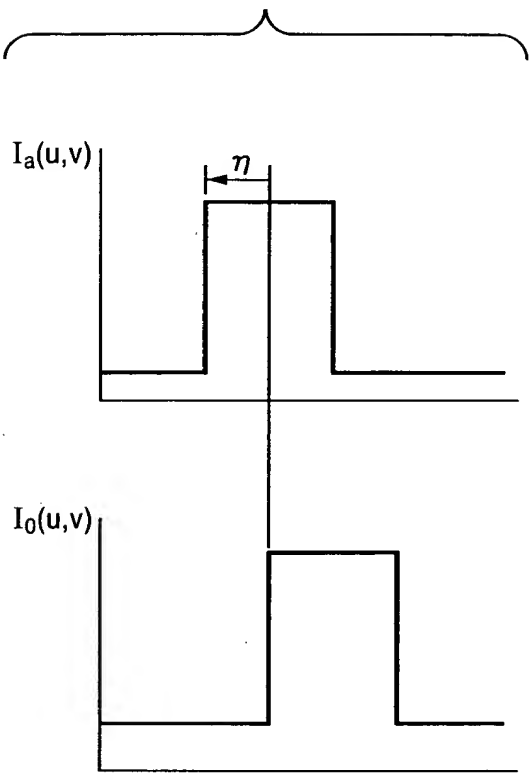


FIG. 5

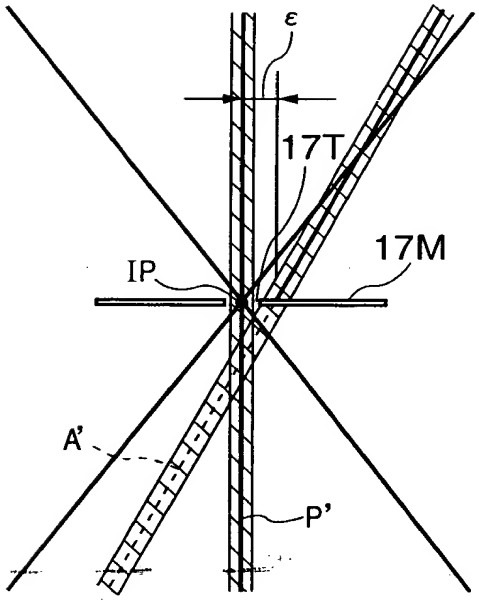


FIG. 6A

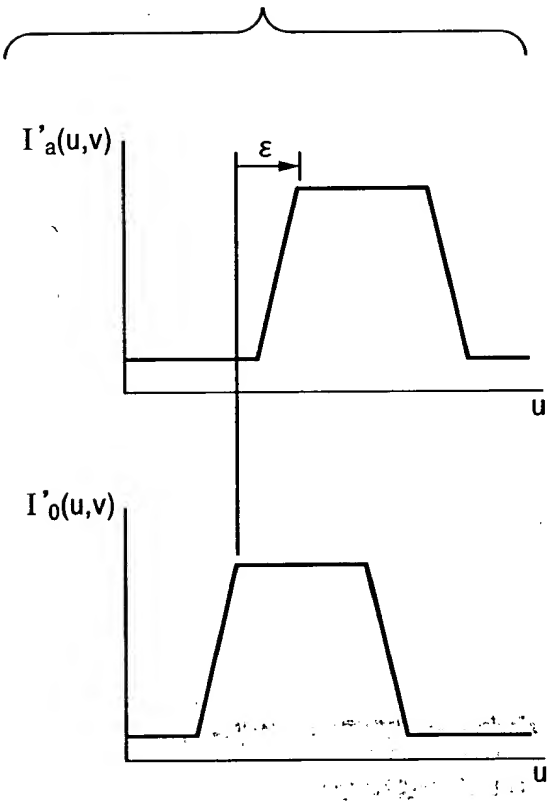


FIG. 6B

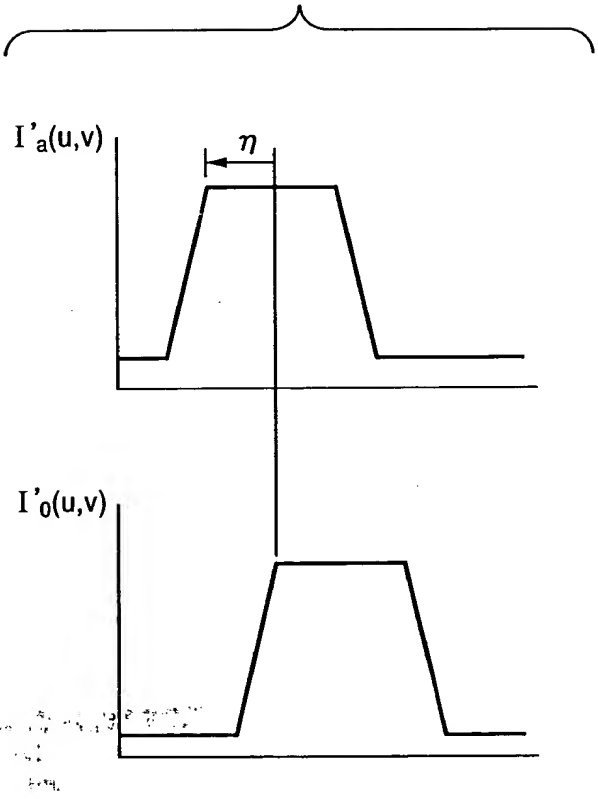


FIG. 7

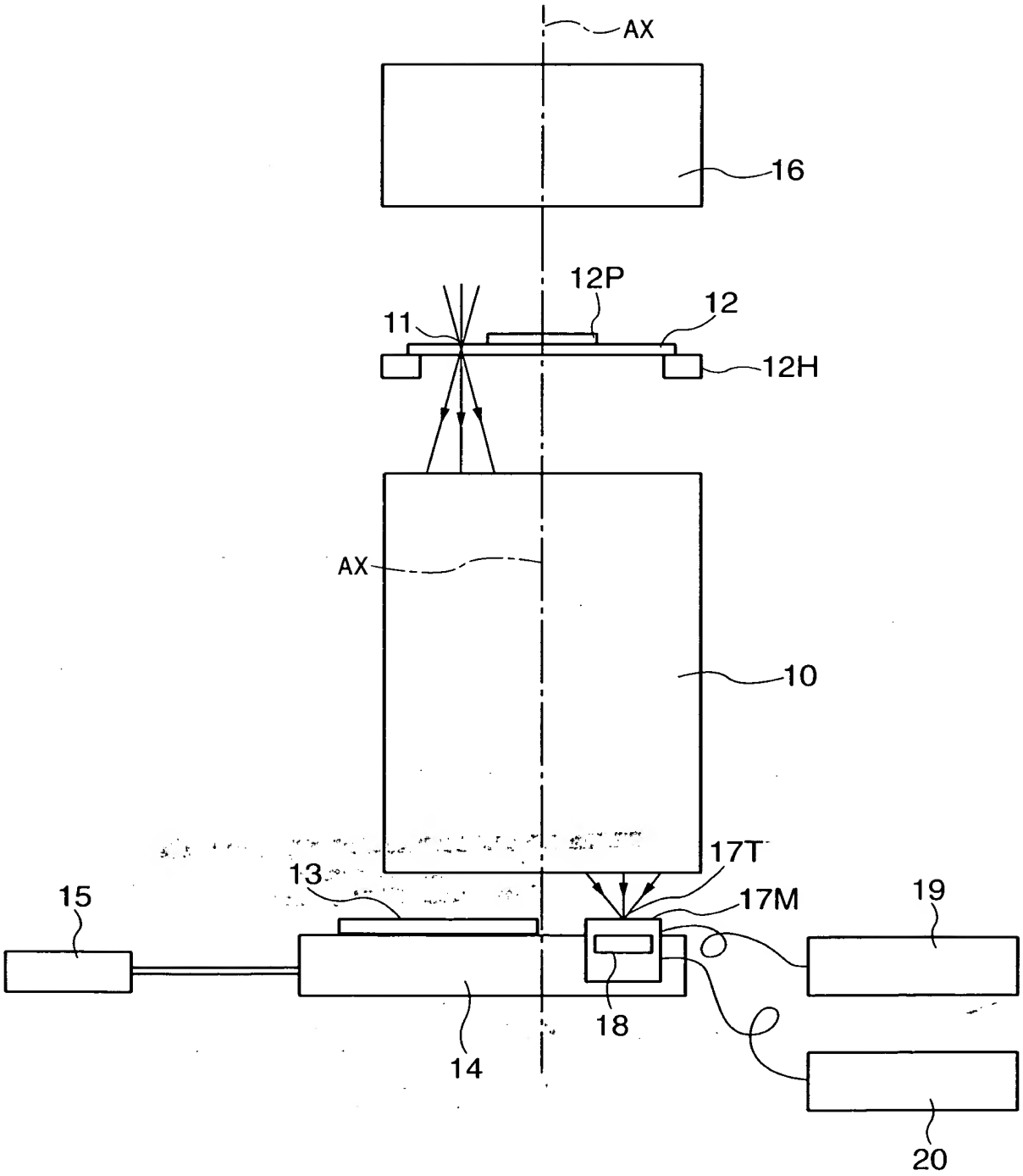


FIG. 8

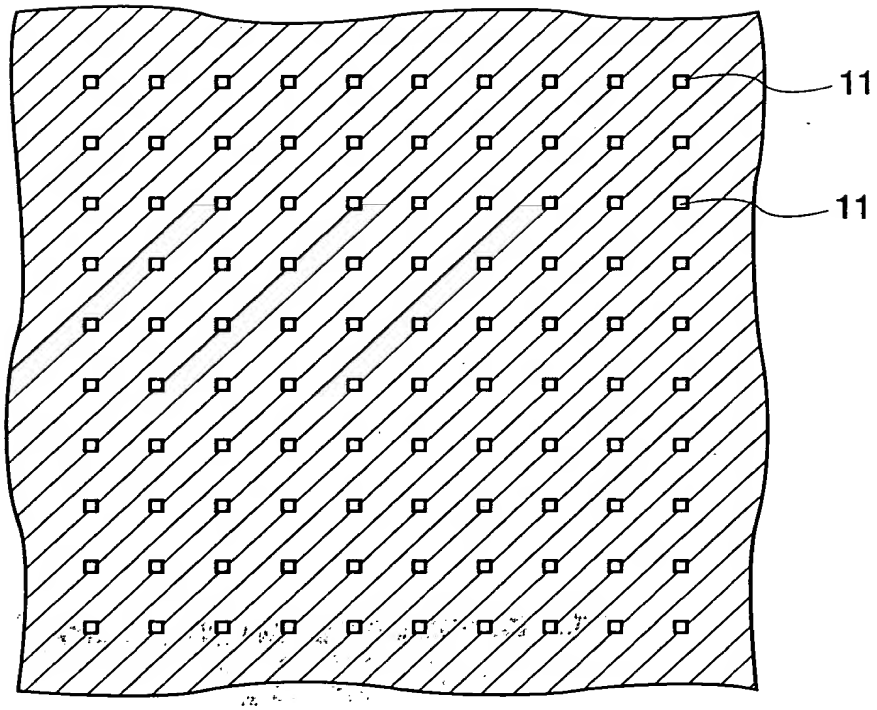


FIG. 9

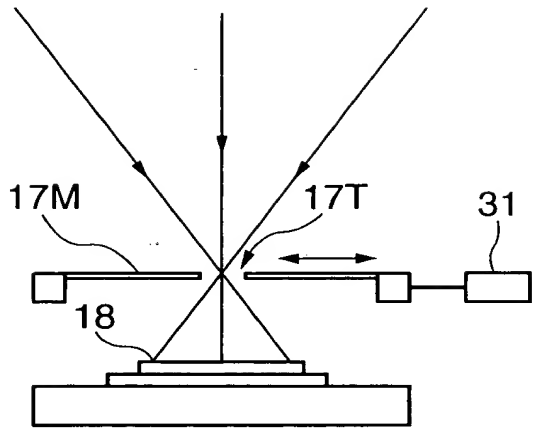


FIG. 10

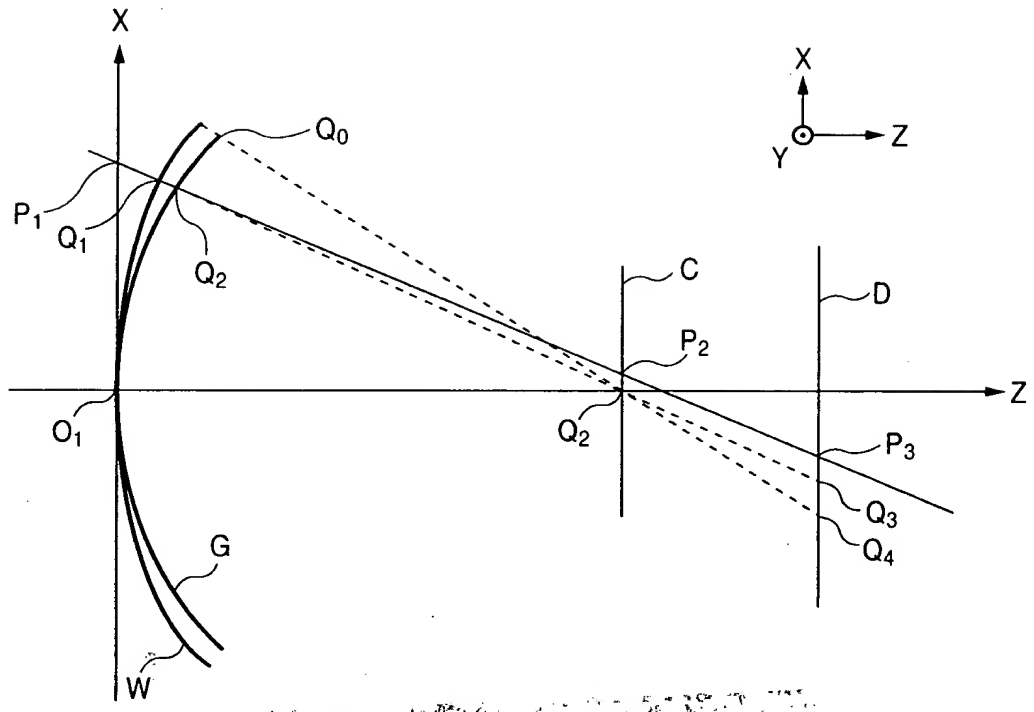


FIG. 11

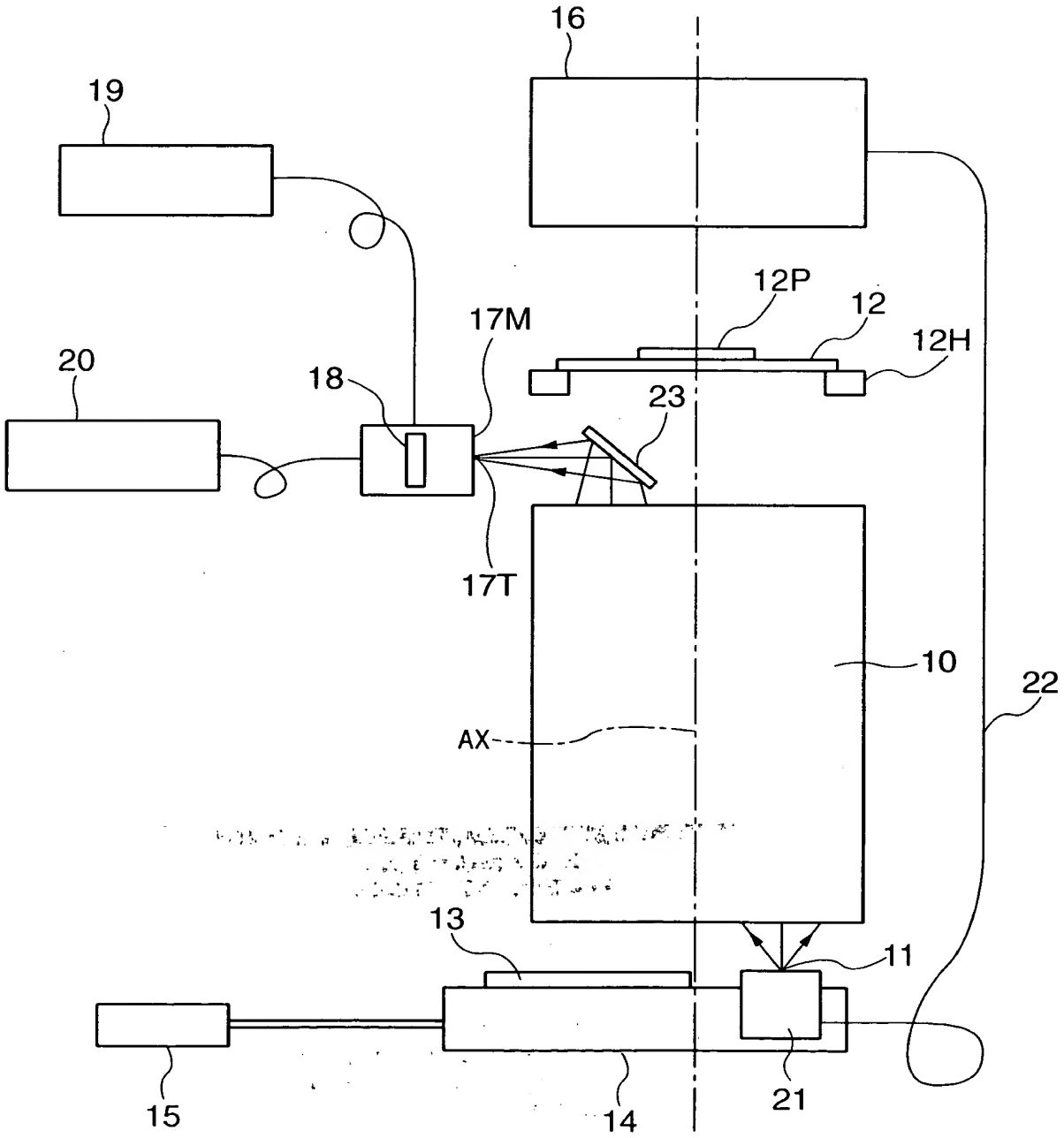


FIG. 12

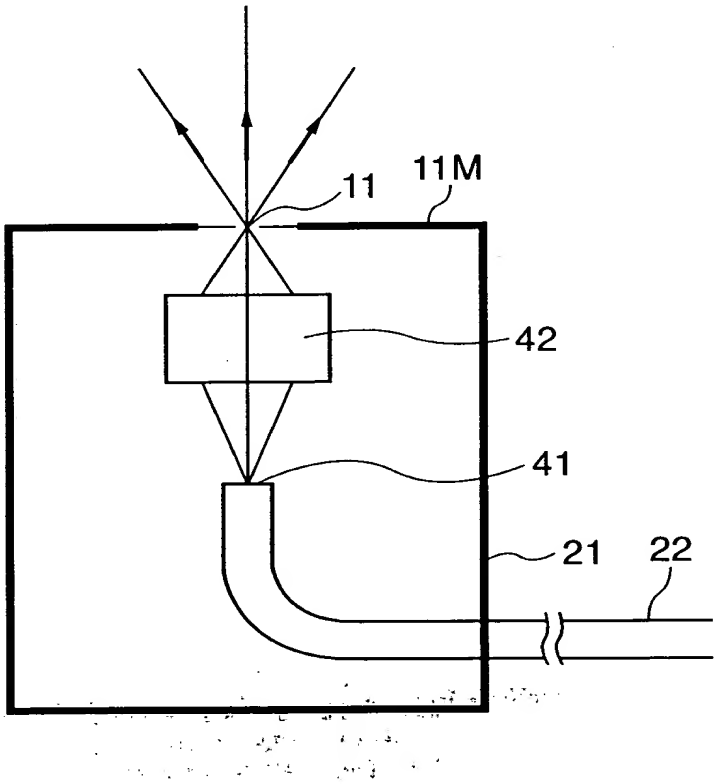


FIG. 13

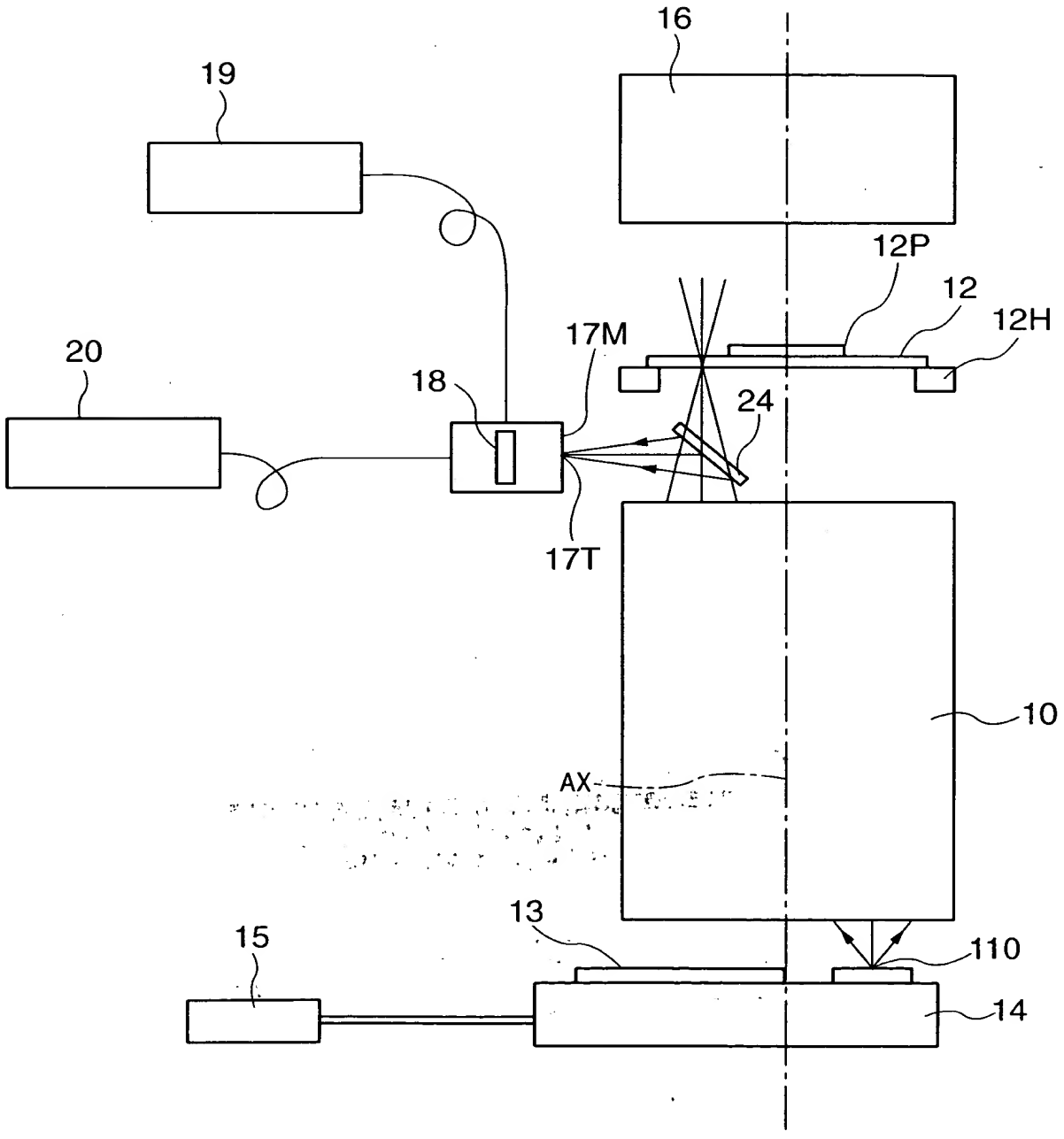


FIG. 14

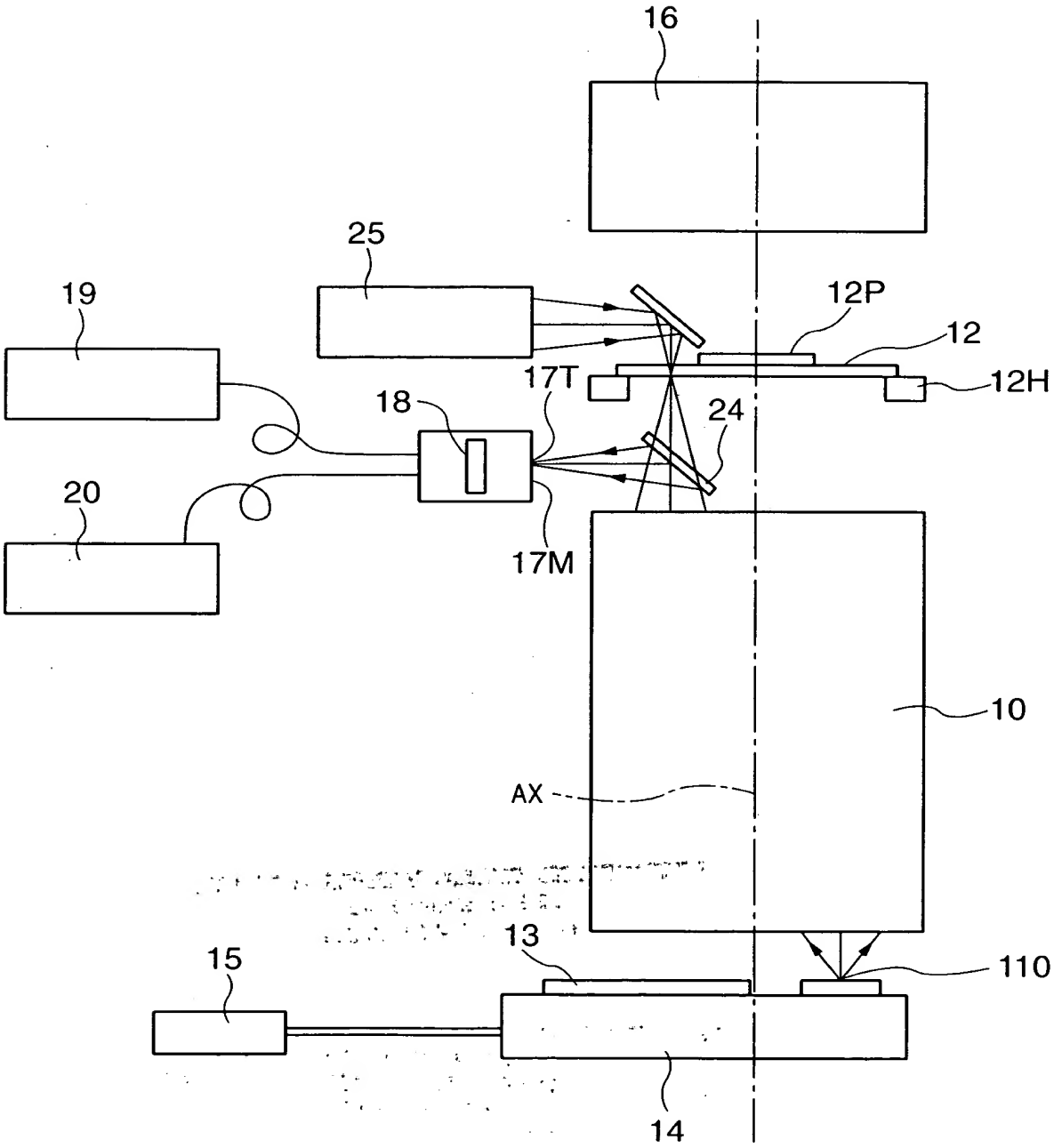


FIG. 15

$$\varepsilon = \left(1+\frac{\Delta R}{R}\right)\cdot\frac{R}{H_0}\cdot\frac{\partial \Phi}{\partial x} = \left(1+\frac{\Delta R}{R}\right)\cdot\frac{1}{NA_0}\cdot\frac{\partial \Phi}{\partial x} \quad \cdots\cdots\cdots (3)$$

$$\eta = \left(1+\frac{\Delta R}{R}\right)\cdot\frac{R}{H_0}\cdot\frac{\partial \Phi}{\partial y} = \left(1+\frac{\Delta R}{R}\right)\cdot\frac{1}{NA_0}\cdot\frac{\partial \Phi}{\partial y} \quad \cdots\cdots\cdots (4)$$

$$\alpha = \left(1+\frac{\Delta L}{L}\right)\cdot\frac{L}{R}\cdot\frac{R}{H_0}\cdot\frac{\partial \Phi}{\partial x} = \left(1+\frac{\Delta L}{L}\right)\cdot\frac{L}{R}\cdot\frac{1}{NA_0}\cdot\frac{\partial \Phi}{\partial x} = \frac{L\left(1+\frac{\Delta L}{L}\right)}{R\left(1+\frac{\Delta R}{R}\right)}\cdot\varepsilon \quad \cdots\cdots\cdots (5)$$

$$\beta = \left(1+\frac{\Delta L}{L}\right)\cdot\frac{L}{R}\cdot\frac{R}{H_0}\cdot\frac{\partial \Phi}{\partial y} = \left(1+\frac{\Delta L}{L}\right)\cdot\frac{L}{R}\cdot\frac{1}{NA_0}\cdot\frac{\partial \Phi}{\partial y} = \frac{L\left(1+\frac{\Delta L}{L}\right)}{R\left(1+\frac{\Delta R}{R}\right)}\cdot\eta \quad \cdots\cdots\cdots (6)$$

FIG. 16

$$X'' = X' + \alpha \quad \cdots\cdots\cdots (7)$$

$$Y'' = Y' + \beta \quad \cdots\cdots\cdots (8)$$

$$\frac{X}{H_0} = \frac{X'}{H'_0} = x \quad \cdots\cdots\cdots (9)$$

$$\frac{Y}{H_0} = \frac{Y'}{H'_0} = y \quad \cdots\cdots\cdots (10)$$

$$x = \frac{X''}{H'_0} - \frac{\alpha}{H'_0} \quad \cdots\cdots\cdots (11)$$

$$y = \frac{Y''}{H'_0} - \frac{\beta}{H'_0} \quad \cdots\cdots\cdots (12)$$

FIG. 17

$$\frac{\Delta R}{R} \ll 1 \cdots\cdots\cdots (13)$$

$$\frac{\Delta L}{L} \ll 1 \cdots\cdots\cdots (14)$$

$$\frac{\alpha}{H'_0} = \frac{1}{H'_0} \cdot \frac{L}{R} \cdot \varepsilon \ll 1 \cdots\cdots\cdots (15)$$

$$\frac{\beta}{H'_0} = \frac{1}{H'_0} \cdot \frac{L}{R} \cdot \eta \ll 1 \cdots\cdots\cdots (16)$$

$$\varepsilon(x,y) = \frac{1}{NA_0} \cdot \frac{\partial \Phi}{\partial x} \cdots\cdots\cdots (3')$$

$$\eta(x,y) = \frac{1}{NA_0} \cdot \frac{\partial \Phi}{\partial y} \cdots\cdots\cdots (4')$$

$$x = \frac{X''}{H'_0} \cdots\cdots\cdots (11')$$

$$y = \frac{Y''}{H'_0} \cdots\cdots\cdots (12')$$

FIG. 18

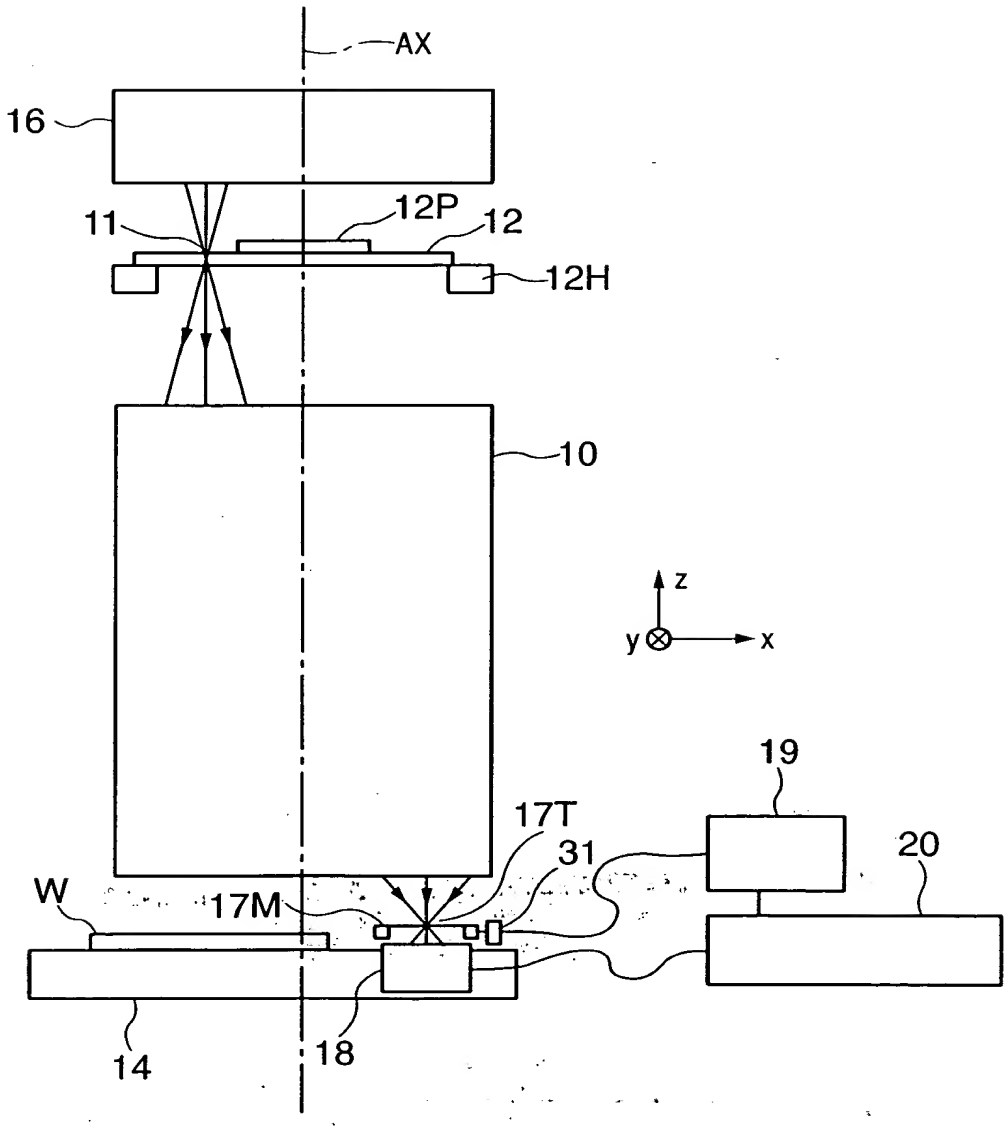
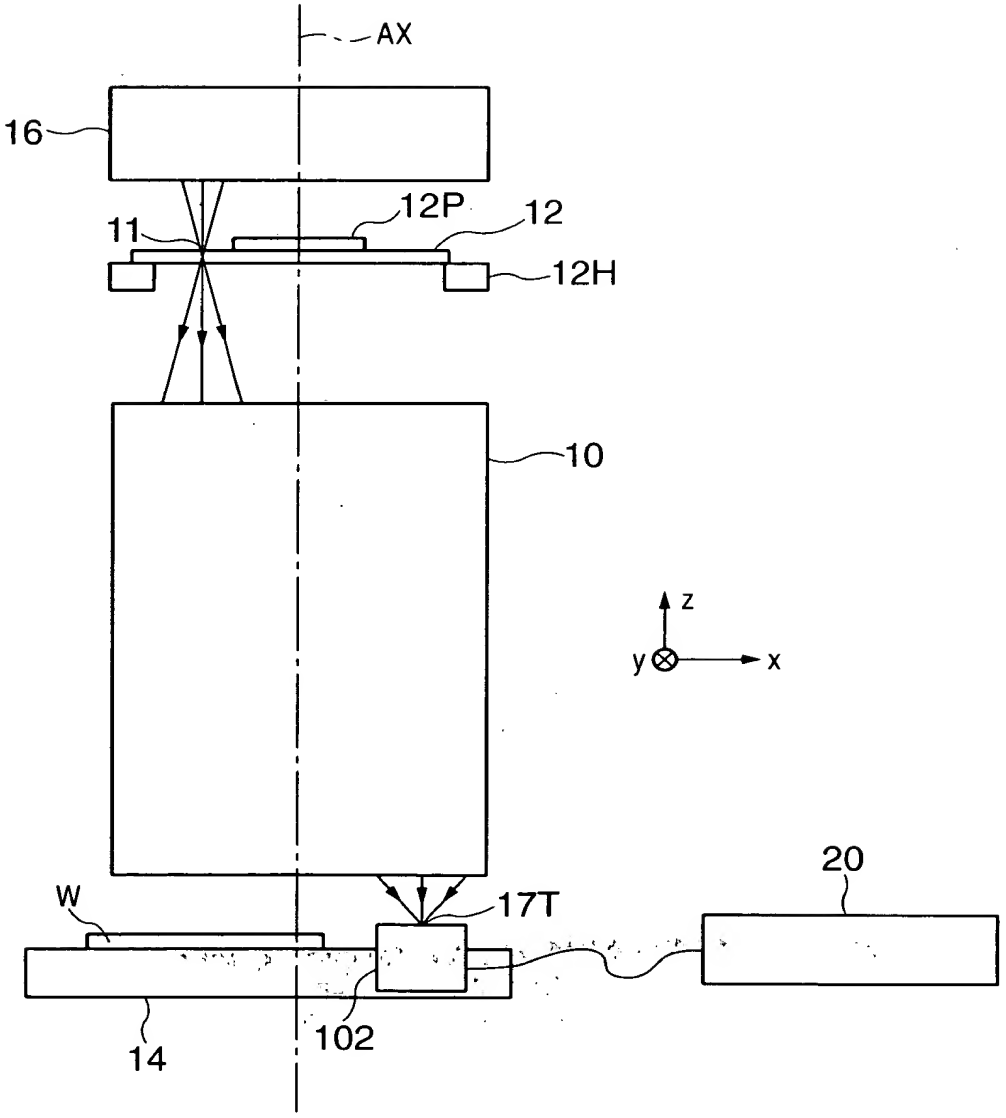


FIG. 19



F I G. 20

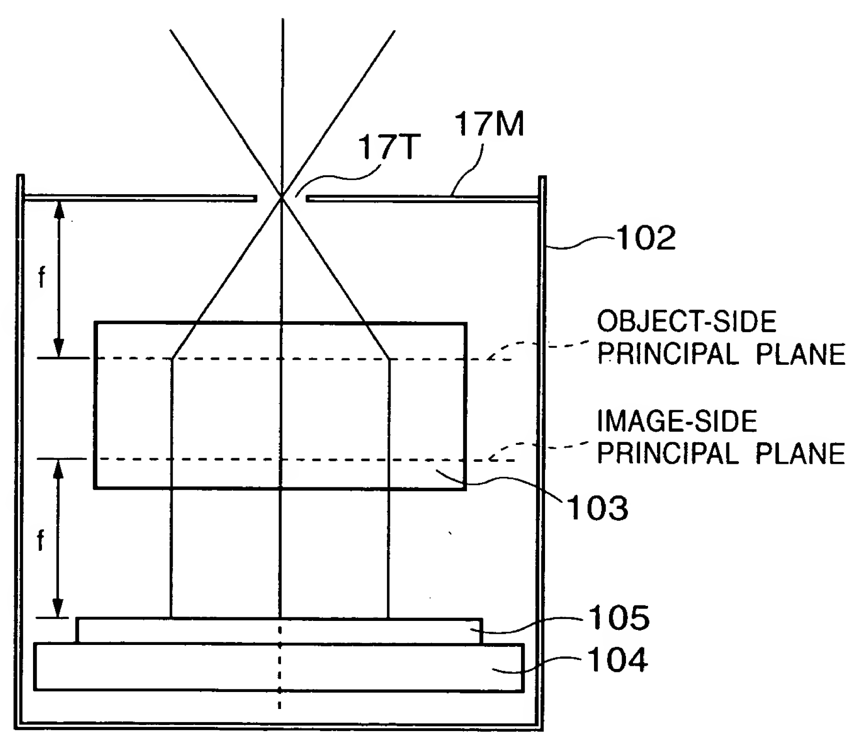

17M
17T
102
f
OBJECT-SIDE
PRINCIPAL PLANE
IMAGE-SIDE
PRINCIPAL PLANE
103
f
105
104

FIG. 21

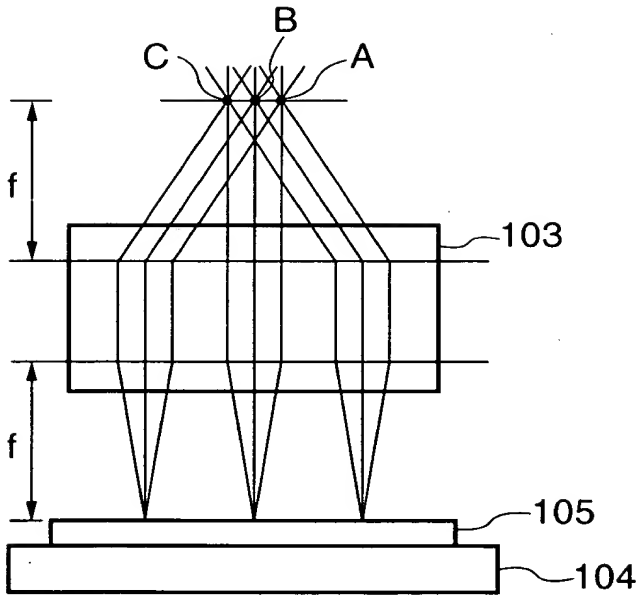


FIG. 22

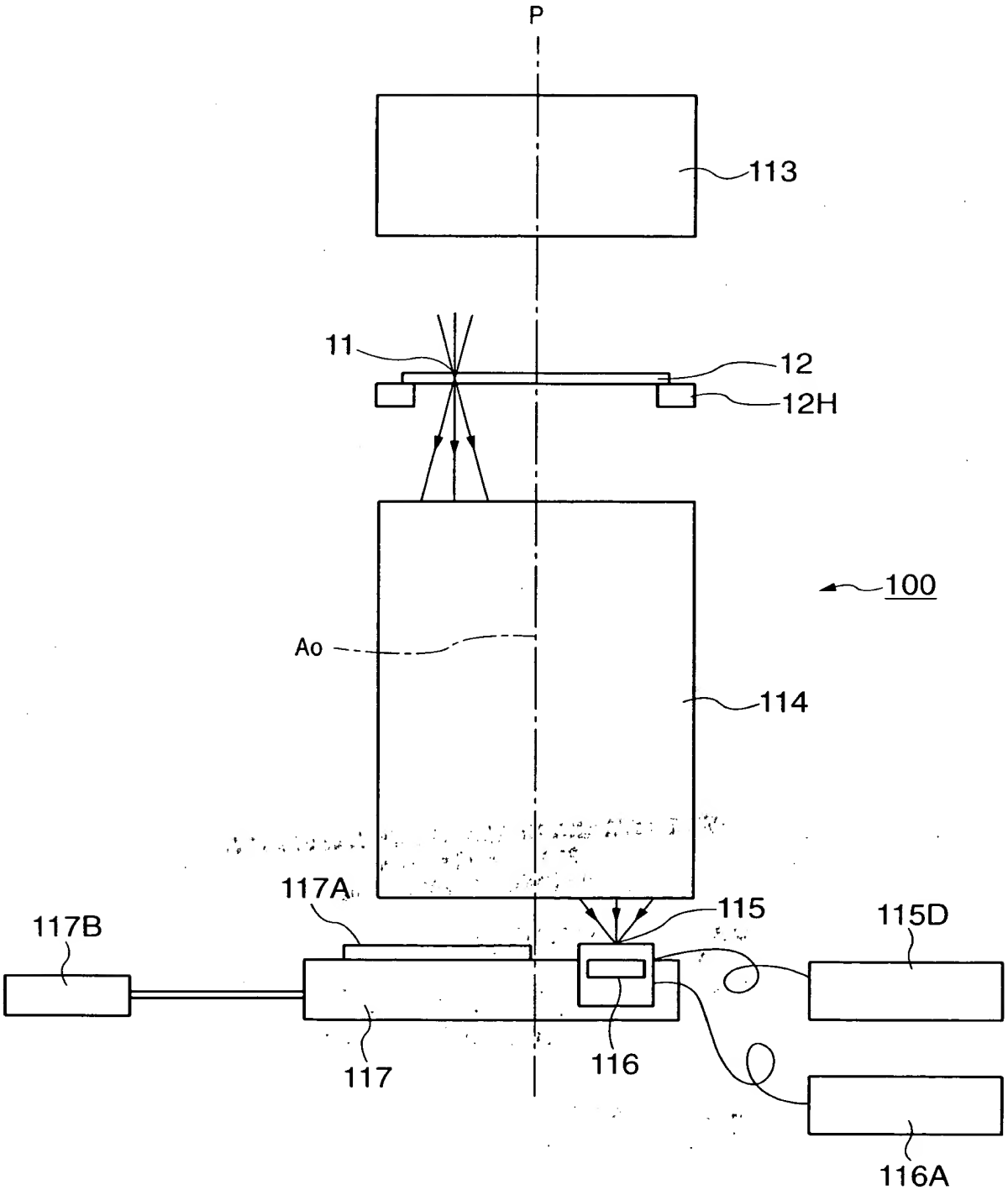


FIG. 23

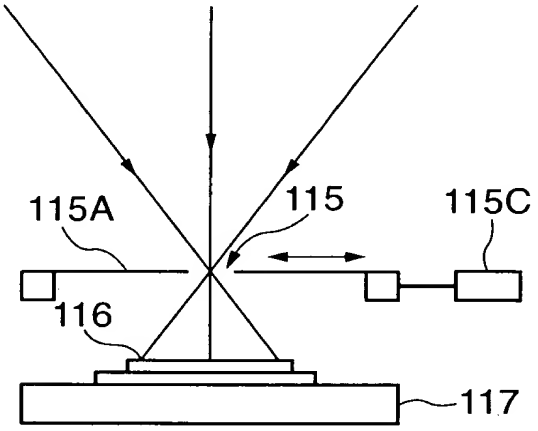


FIG. 24

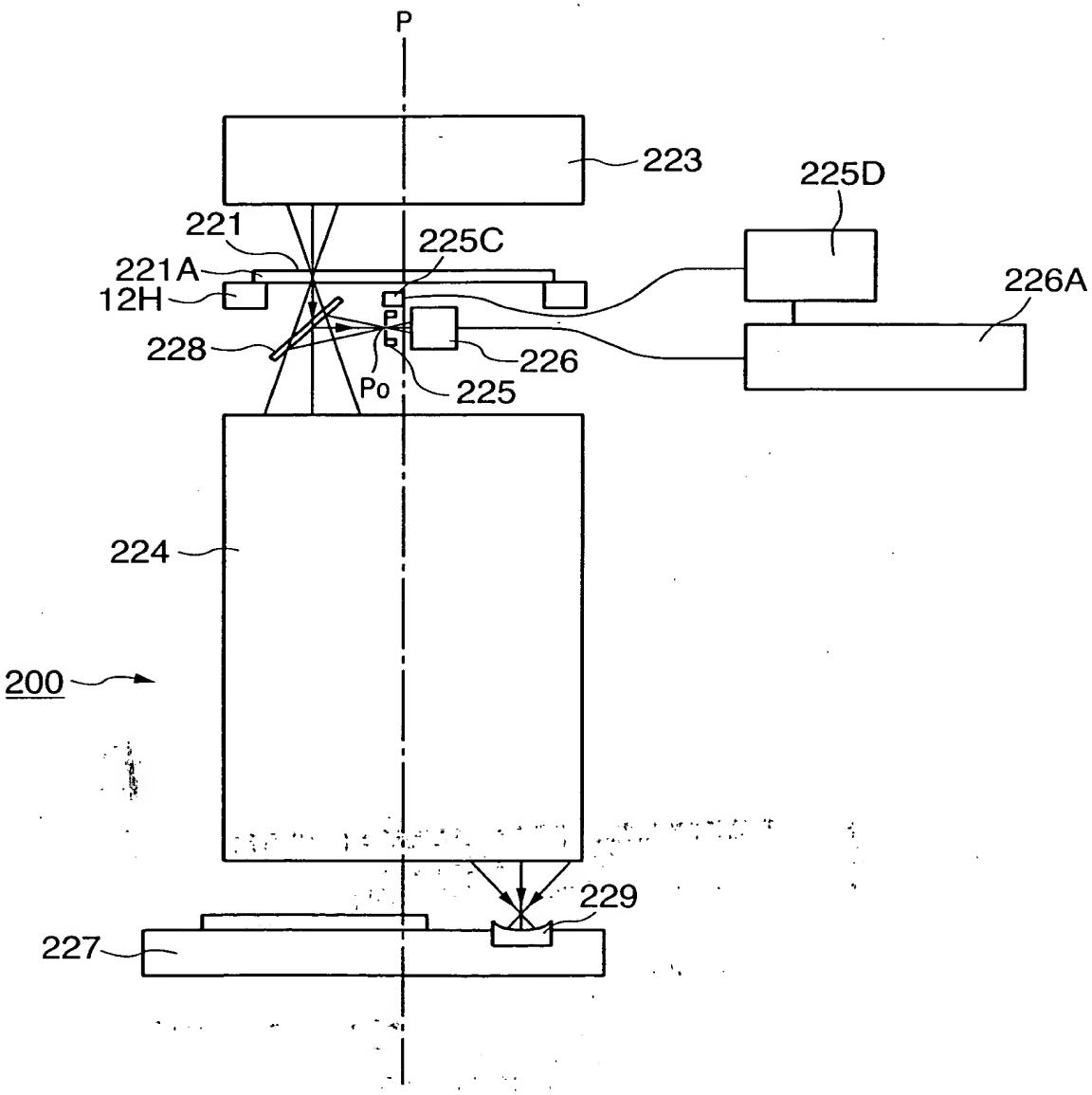


FIG. 25

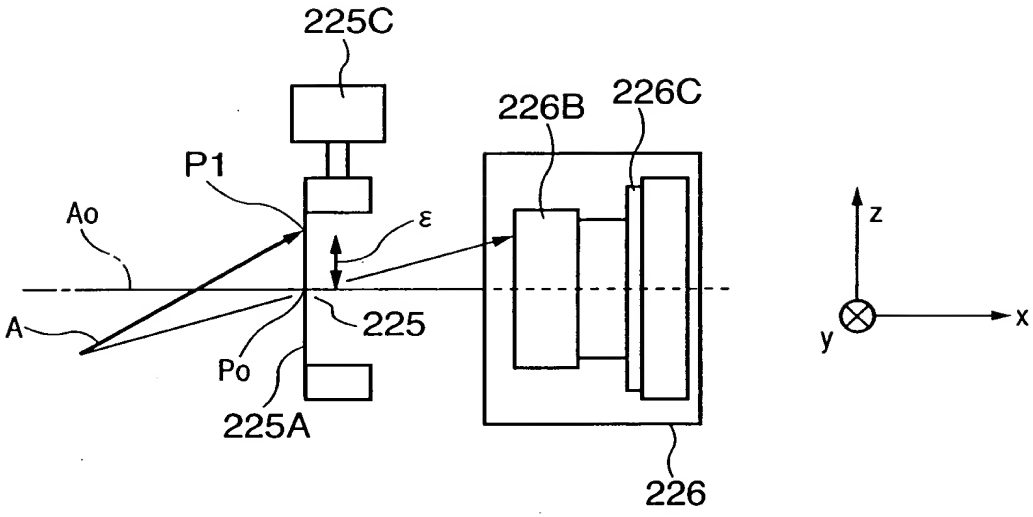


FIG. 26A

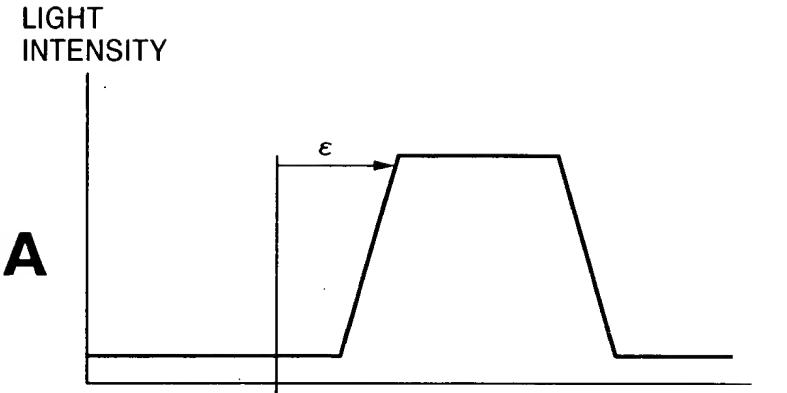


FIG. 26B

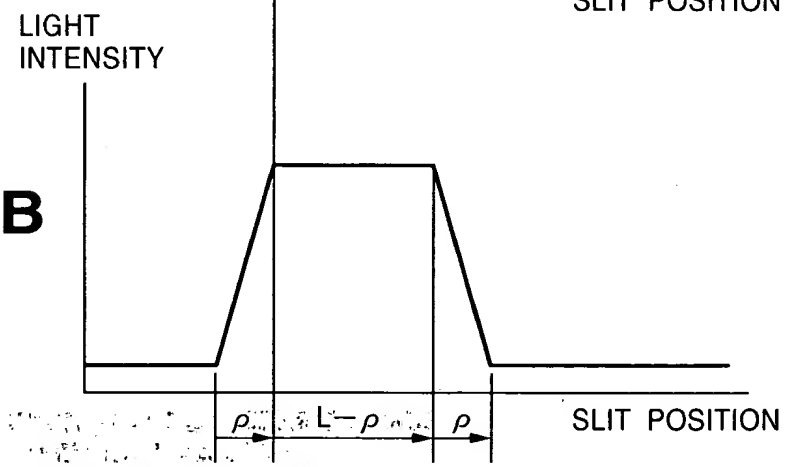


FIG. 27

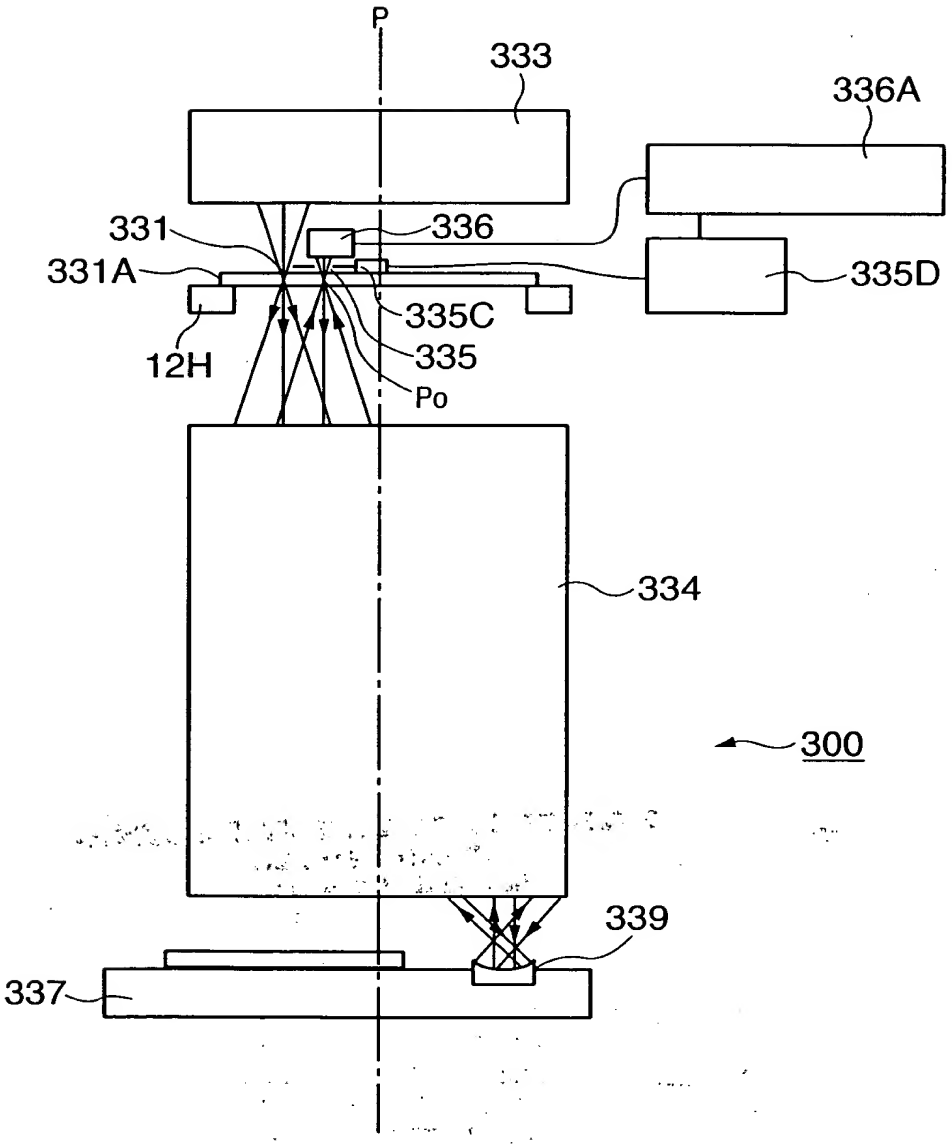


FIG. 28

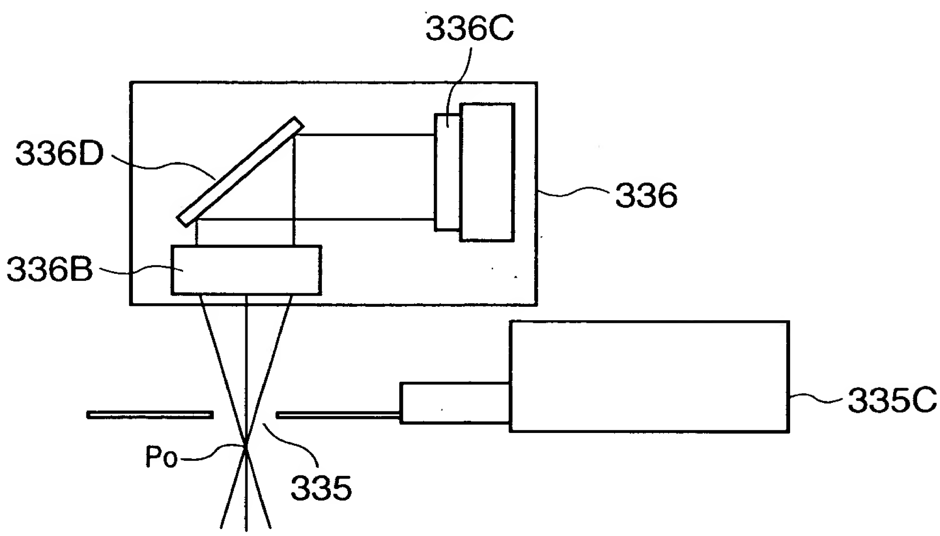


FIG. 29

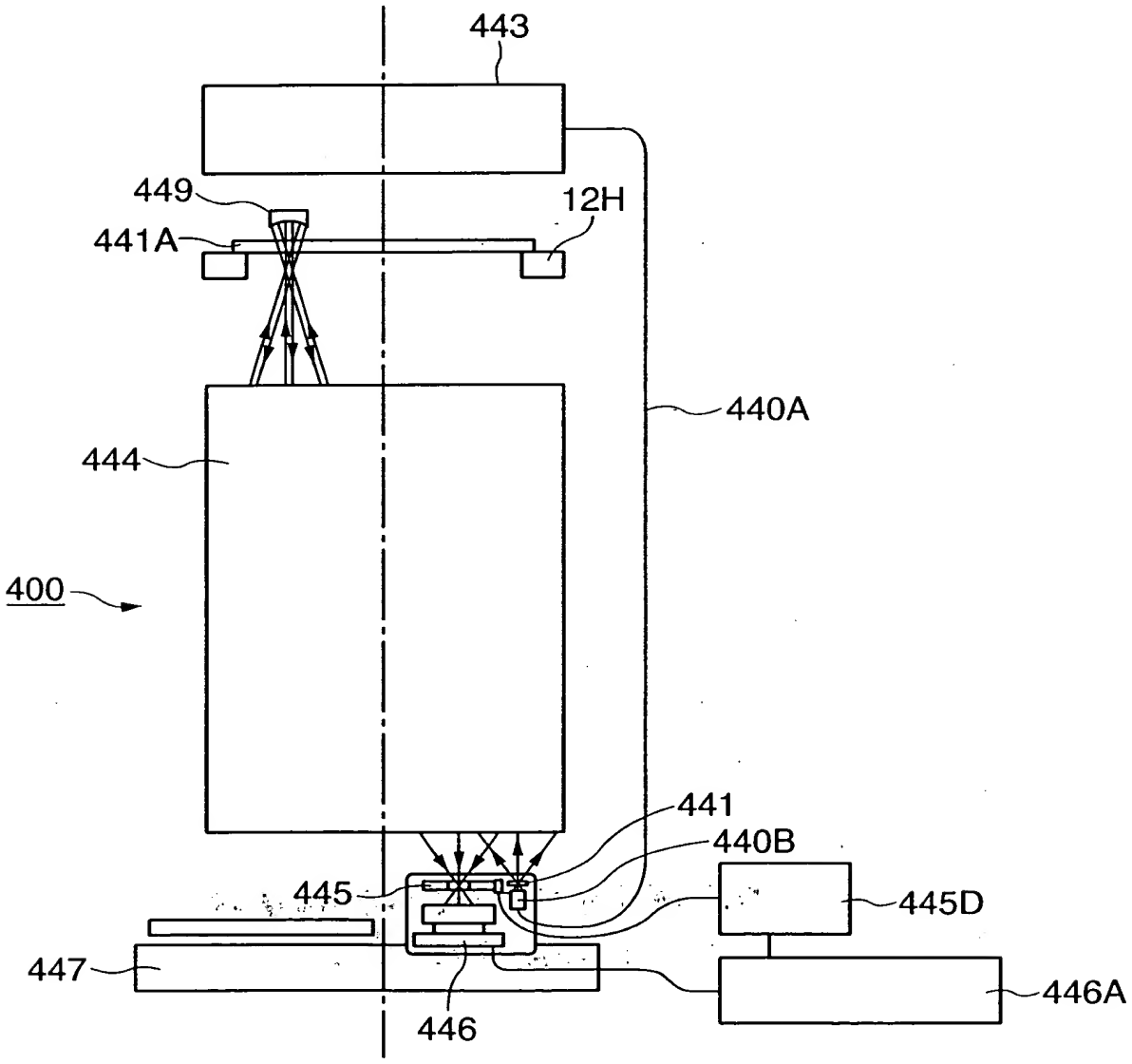


FIG. 30

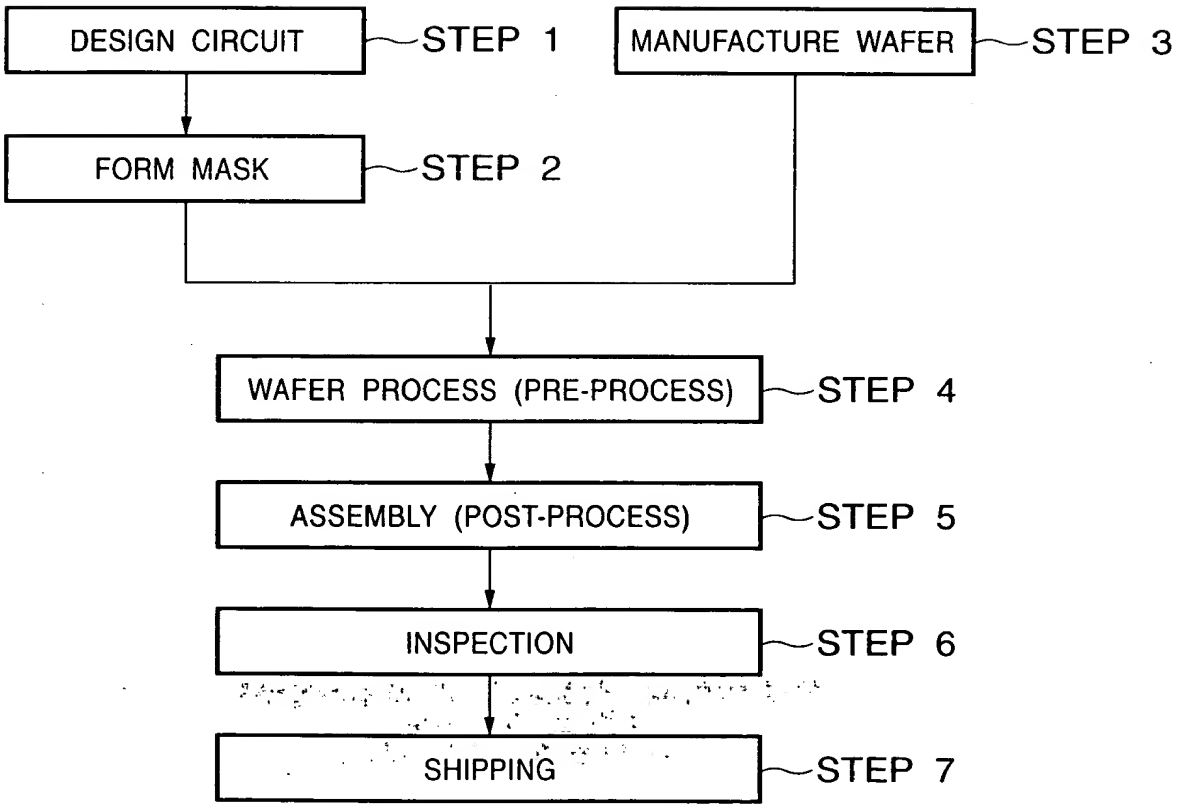
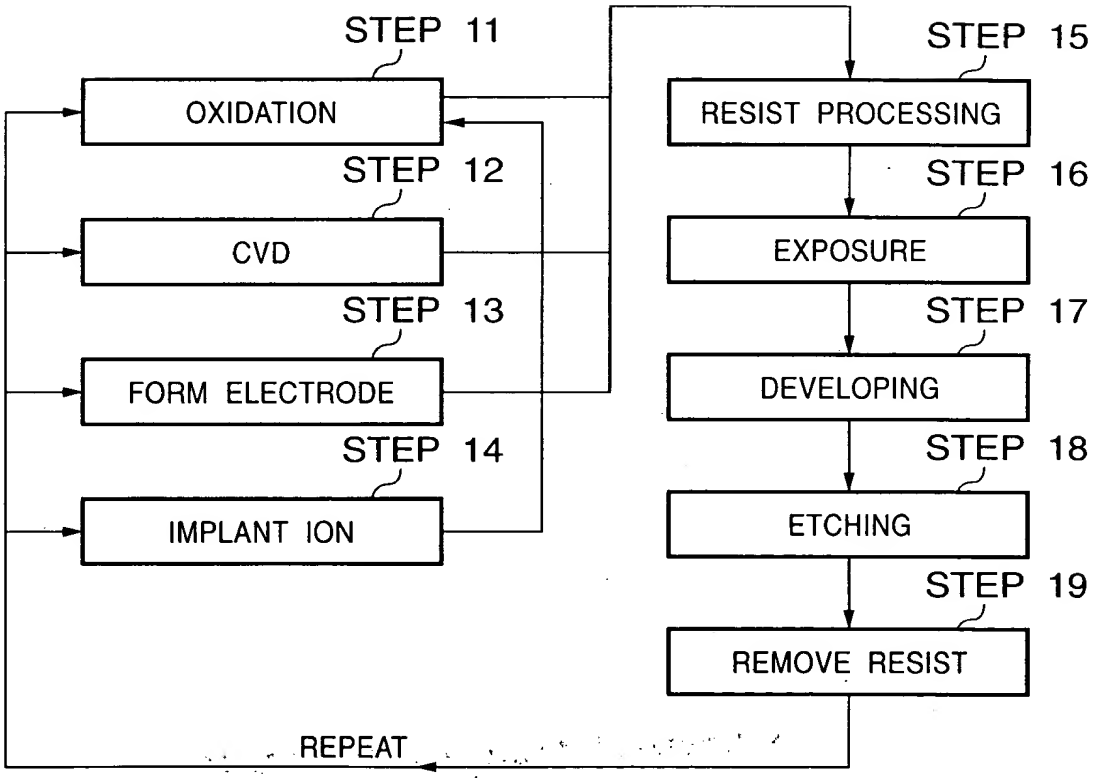


FIG. 31


STEP 11
OXIDATION
STEP 12
CVD
STEP 13
FORM ELECTRODE
STEP 14
IMPLANT ION
STEP 15
RESIST PROCESSING
STEP 16
EXPOSURE
STEP 17
DEVELOPING
STEP 18
ETCHING
STEP 19
REMOVE RESIST
REPEAT